

WHAT IS CLAIMED IS:

1. A weather resistant poly(vinyl chloride) compound,
comprising:

(a) poly(vinyl chloride) and

5 (b) at least about 2 weight parts of essentially pure chalk-like
calcium carbonate per 100 weight parts of poly(vinyl chloride), the calcium
carbonate having a particle size less than about 10 μm .

10 2. The compound of claim 1, wherein the essentially pure
calcium carbonate particle size is less than about 6 μm .

3. The compound of claim 1, wherein the calcium carbonate is
Jamaican calcium carbonate.

15 4. The compound of claim 1, wherein the essentially pure
calcium carbonate is present in an amount from about 2 to about 50 weight
parts.

20 5. The compound of claim 1, wherein the essentially pure
calcium carbonate particles are surface treated with a stearate.

6. The compound of claim 1, further comprising:

25 (c) at least about 0.5 weight parts of organotin stabilizer based on
100 weight parts of poly(vinyl chloride), wherein the organotin stabilizer
comprises substituted mono-alkyl or dialkyl or trialkyl esters of tin with mono-,
di-, or tri- substituted active mercapto groups or carboxylate groups.

7. The compound of claim 6, further comprising:

(d) at least about 0.1 weight parts of zinc dialkyl ester scavenger per 100 weight parts of PVC resin, provided the equivalents of active mercapto groups or carboxylate groups in the organotin are equal to or exceed the equivalents of dialkyl ester groups in the zinc dialkyl ester.

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8. The compound of claim 1, wherein the poly(vinyl chloride) comprises is a homopolymer or a copolymer of copolymerized vinyl chloride monomer with less than 5% by weight copolymerized other unsaturated comonomer.

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9. A compound comprising a mixture of polymers, wherein one polymer is the compound of any of Claims 1-8 and wherein a second polymer is a poly(acrylic) polymer.

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10. The compound of Claim 9, wherein the poly(acrylic) polymer is a poly(meth)acrylate present in the mixture in an amount from about 25 to about 75 weight percent of the mixture.

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11. A process for producing a poly(vinyl chloride) compound, the process comprising:

(a) providing an essentially pure calcium carbonate having a particle size less than about 10 μm ; and

(b) mixing the calcium carbonate with poly(vinyl chloride) in an amount of at least about 2 weight parts calcium carbonate per 100 weight parts of poly(vinyl chloride).

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12. A poly(vinyl chloride) article comprising the compound of any of Claims 1-9.